electra

Creating Sustainable Value

Remote Monitoring and Data Access

FDA EUA APPROVED

Product Made in India · Premium Quality

Portable Ventilator

WITH

Integrated H F N C

Designed & Licensed by

NASA Jet Propulsion Laboratory
California Institute of Technology

Manufactured by

ET® ELECTROTHERM SOLAR LIMITED

Safe

Reliable

Efficient

APPROVED CE APPROVED

ISO 9001:2015

ISO ISO 13485:2016

CENTRAL DRUGS STANDARD CONTROL ORGANISATION CDSCO CDSCO सत्यमेव जयते MINISTRY OF HEALTH,GOVERNMENT OF INDIA

Electra Assist...

A HealthCare app to fill the gap

GET REMOTE ACCESS TO CUSTOMIZED HEALTH CARE APP

- Provide live feed of ventilator to your mobile
- Monitors alarm indications along with trigger count
- Export data in PDF format
- Detail reports along with time stamp
- Stores patient profile with data log
- Data portability via SD card
- Provides graphic representation of tidal volume and proximal pressure

Technical Specifications

Patient Category	**Adult, Pediatric (Age 7 Years And Above , Weight 25 kg And Above)**	
Ventilator Mode	**Invasive**	**Non-Invasive**
	VC-CMV	HFNC
	VC-ACMV	CPAP
	PC-CMV	CPAP-PS
	PC-ACMV	BiPAP-S/T
	PC-SIMV	BiPAP-PS
	PRVC-ACMV	
Control Parameters	**VENTILATION**	
	Tidal Volume	100-1800 mL
	PIP (Peak Inspiratory Pressure)	5-70 cmH2o
	I-PAP	5-40 cmH2o
	PEEP (Positive End Expiratory Pressure)	0& 5-30 cmH2o
	EPAP/CPAP	5-30 cmH2o
	CPAP-PS	5-30 cmH2o
	FiO2	21-100%
	Breath Rate Per minute	4-40 bpm
	I TIME	0.1-3.0 sec
	Apnea Backup Rate	4-40 BPM
	HFT - High Flow Therapy	20-70 LPM
Display Parameters	Respiratory Rate	BPM
	Minute Ventilation Lpm	LPM
	Tidal Volume	mL
	Fio2	%
	Airway Pressure (Min, Mean, Max)	cmH2o
	Plateau Pressure	cmH2o
	Inspiratory Pressure	cmH2o
	Flow	LPM
	Airway Flow (For High flow Therapy)	LPM
	Airway Temperature (For High flow Therapy)	˚C
Alarms	1) Disconnect (for Patient Tubing) 2) PEEP 3) Tidal Volume 4) P insp 5) Flow Alarm 6) Temperature Alarm 7) Respiratory Rate	8) F_iO_2 9) Machine Fault 10) Low Power (for Alarm Battery) 11) E-PAP 12) C-PAP 13) I-PAP

Monitoring Display	Numerical Display	
	Vertical Bar Chart	
	Volume, Pressure & Flow	
	Digital 7 inch Graphical Display*	
Oxygen Sensor	Optical/Ultrasonic Oxygen Sensor	21-100%
	Accuracy + 2% @100% F_iO_2 With Auto Calibration	
Gas Supply	Air source Inlet	Built - In Blower
	Oxygen Source High Pressure Diss Input	Range 35 to 87 PSI
Electrical Specification	Ac Supply	110 -240 VAC, 90 W Max, 50/60 Hz
	Battery	9 v Alarm Battery
Special Function	Automatic System Self-test On Start up Alarm Silence Reset Electronic PEEP Tablet Based Alarm Data Log* Tablet Based Trending Data Storage* Patient Vital Report Generation 24 x 7 x 365 Inbuilt Air Source Zero Risk of Cross Contamination to patient Medical Air as Per European Standards	Flow Sensor Auto Calibration Oxygen Sensor Auto Calibration Blower Driven Pressure Trigger Automatic leakage compensation Non-invasive Modalities Permanent Oxygen Sensor Automatic Altitude Compensation
Safety	Electrical Safety IEC 60601-1, IEC 60601-2	
	Relief Valve for Excessive Pressure Cut-off	
	Alternate Breathing Airway In case of machine failure	
	Safety Valve	
Warranty	1 Year	
Dimensions	Size L x W X H (mm)	440 x 340 x 310
	Weight (Kg)	9.2 KG
Product	Description	
	EV Electra Ventilator	1
	Power Cord	1
	7 Inch Tablet with Mount and Interface Cable	1
	High Pressure Diss Female Oxygen Hose	1
	IPPB Patient Tubing Set with Bacterial Hme Filter	1
	Bipap Mask	1
	Adult Test Lung 1 Litre	1
	Operating User Manual	1
Optional Accessories	UPS 110 /230 v 50/60 Hz 100 W	
	Complete Stand Assembly	
	Circuit Support Arm for Holding Patient Tubing	

In built Blower & Permanent Sensor

A common challenge with some turbine-driven ventilators is the lack of power to deliver constant flow and high pressure over a sustained time period. Interruptions may occur due to a need to switch devices, modes, batteries, cylinders - or even to replace a broken turbine. Electra delivers steady ICU performance and flow with unusually high power.

Incorporated with economical solution of world class permanent mass flow sensor and oxygen sensor with auto calibration facility.

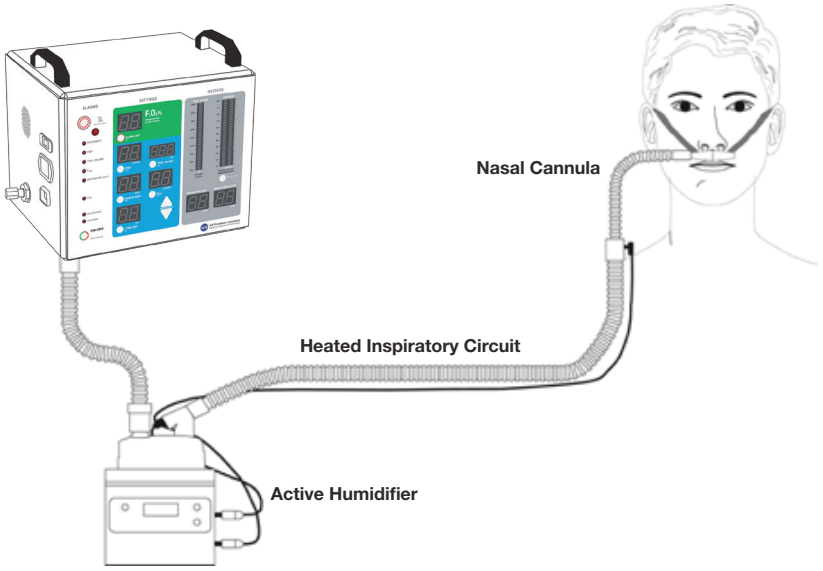
USB Controller Nebuliser Compatible

USB controlled effective aerosol drug delivery system to patient in high flow invasive and non invasive modalities.

Maintaining patient closed circuit drug delivery system for aersol to eliminate need of open circuit.

HFNC

High Flow therapy (HFNC) comprises an active humidifier, a single heated circuit, and a nasal cannula. It delivers adequately heated and humidified medical gas at up to 70 L/min of flow and is considered to have a number of physiological effects: reduction of anatomical dead space, PEEP effect, constant fraction of inspired oxygen, and good humidification. While there have been no big randomized clinical trials, it has been gaining attention as an innovative respiratory support for critically ill patients With Airway Over Temperature Protection Feature.



Clinical applications with Electra

1. BIPAP

BiPap machine can help push air into your lungs and it can be used to provide treatment for a wide range of respiratory conditions.

- Chronic Obstructive Pulmonary Disorder (COPD)
- Obesity Hypoventilation Syndrome (OHS)
- Obstructive Sleep Apnea
- Central Sleep Apnea

2. CPAP Machine

A continuous positive airway pressure (CPAP) machine is the most effective treatment for sleep apnea, a common sleep disorder in which breathing is interrupted throughout the night. Sleep apnea can decrease your quality of life and contribute to cardiovascular disease and events such as heart attack and stroke.

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For more information, please visit on
www.electraventilator.com

Designed & Licensed by
Jet Propulsion Laboratory
California Institute of Technology

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